SYLVANIA

engineering data service

SYLVANIA
12F8

MECHANICAL DATA

Bulb	T-6 ½
Base	E9-1, Miniature Button 9-Pin
Outline	6–2
Basing	9FH
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage[1]	12.6 Volts	
Heater Current	150 Ma	
Heater-Cathode Voltage (Design Center Values)		
Heater Negative with Respect to Cathode	30 Volts	Max.
Heater Positive with Respect to Cathode	30 Volts	Max.

DIRECT INTERELECTRODE CAPACITANCES

Grid to Plate	0.06 μμf
Input	4.5 μμf
Output	3.0 μμf
Diode to Diode	0.3 μμf

RATINGS (Design Center Values)

Plate Voltage	30 Volts	Max.
Grid No. 2 Voltage	30 Volts	Max.
Positive DC Grid No. 1 Voltage	0 Volts	Max.
Grid No. 1 Circuit Resistance	10 Megohms	Max.
Average Diode Current	1.0 Ma	Max.

CHARACTERISTICS AND TYPICAL OPERATION

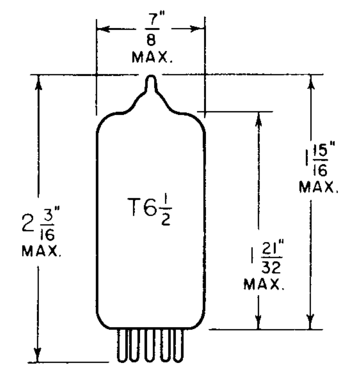
Plate Voltage	12.6 Volts
Grid No. 2 Voltage	12.6 Volts
Grid No. 1 Voltage	0 Volts
Plate Resistance (approx.)	0.33 Megohm
Transconductance	1000 μmhos
Plate Current	1.0 Ma
Grid No. 2 Current	0.38 Ma
Grid No. 1 Voltage (approx.) for gm = 10 μmhos	–5 Volts
Average Diode Current with 10 Volts DC Applied	2 Ma

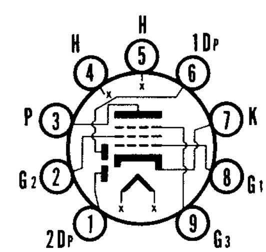
NOTE:

1. *This tube is intended to be used in automotive service from a nominal 12 volt battery source. The heater is therefore designed to operate over the 10.0 to 15.9 voltage range encountered in this service. The maximum ratings of the tube provide for an adequate factor such that the tube will withstand the wide variation in supply voltages.*

QUICK REFERENCE DATA

The Sylvania Type 12F8 is a double detector diode and remote cutoff pentode with a common cathode. The pentode was designed for service as an AF voltage amplifier where the potentials are obtained from a 12 volt automobile storage battery.





9FH

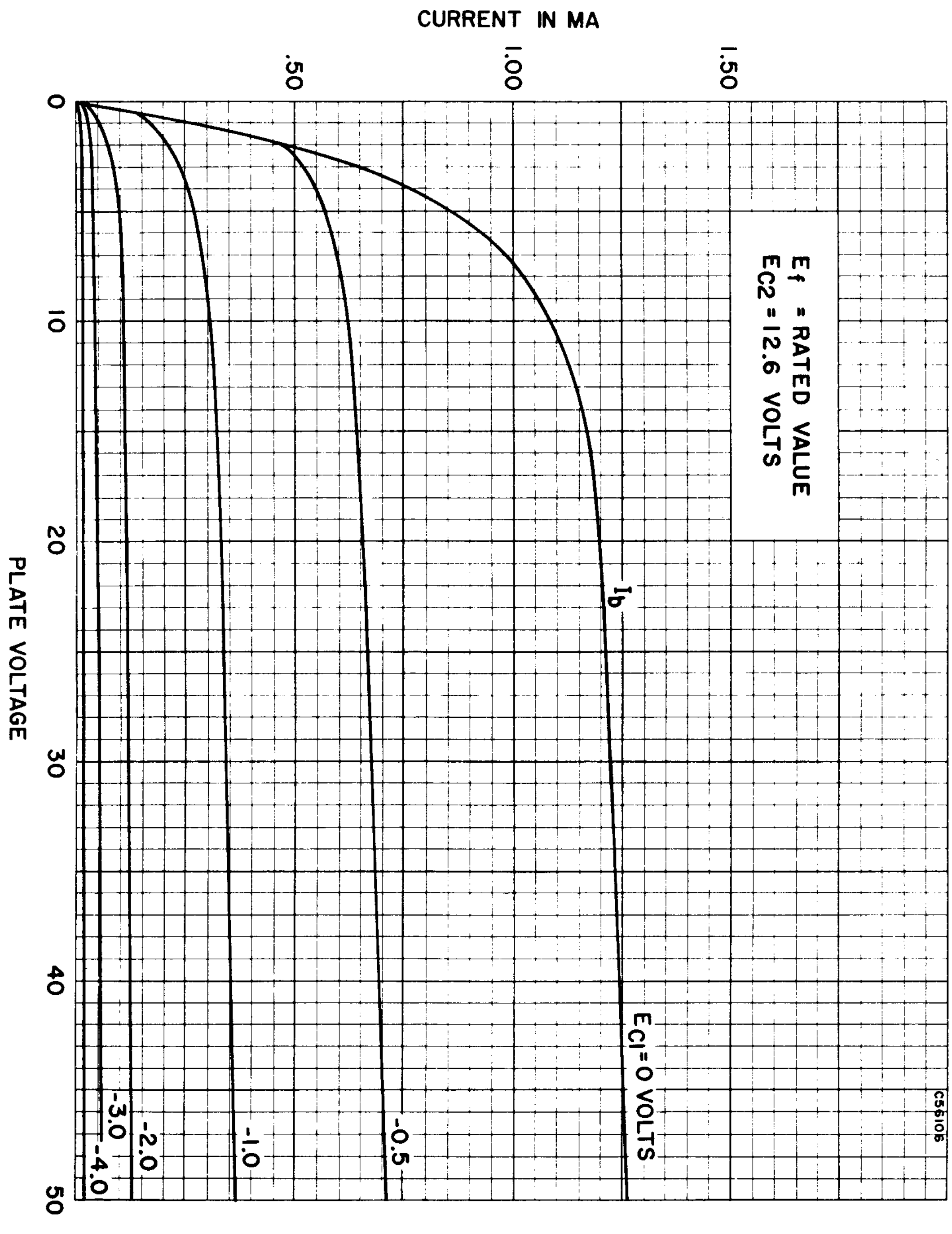
SYLVANIA ELECTRIC PRODUCTS INC.

RADIO TUBE DIVISION
EMPORIUM, PA.

Prepared and Released By The
TECHNICAL PUBLICATIONS SECTION
EMPORIUM, PENNSYLVANIA

JULY 1956

AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS

